US ERA ARCHIVE DOCUMENT

1- EEB-08C

MRID No. 438646-18

DATA EVALUATION RECORD § 72-1 - ACUTE LC₅₀ TEST WITH A WARMWATER FISH

CHEMICAL: Omadine® Sulfonic Acid PC Code No.: 088002

2. TEST MATERIAL: Pyridine-N-oxide-2-sulfonic acid (98.5%)

(Omadine® sulfonic acid)

CITATION:

Authors: T.J. Ward, P.L. Kowalski, and R.L. Boeri Title: Acute Toxicity of Omadine® Sulfonic Acid (Pyridine-N-oxide-2-sulfonic acid) to the

Fathead Minnow, Pimephales promelas

April 7, 1994 Study Completion Date:

Laboratory: T.R. Wilbury Laboratories, Inc.,

Marblehead, MA

Olin Corporation, New Haven, CT Sponsor:

<u>Laboratory Report ID:</u> 33-OL

MRID No.: 438646-18 DP Barcode: D239429

REVIEWED BY: Mark Mossler, M.S., Toxicologist,

Golder Associates Inc.

Signature: Mel Mulls

Date: 6/25 /91

APPROVED BY: Pim Kosalwat, Ph.D., Senior Scientist,

Golder Associates Inc.

signature: P. Kosalwat

Date: 6/25/98

5. APPROVED BY:

Signature:

Date:

6. STUDY PARAMETERS:

Age or Size of Test Organism:

34 mm

Definitive Test Duration:

96 hours

Study Method:

Flow-through

Type of Concentrations:

Mean measured

7. **CONCLUSIONS:** This study is scientifically sound and fulfills the guideline requirements. A 96-hour LC₅₀ of 58.8 ppm ai classifies Omadine® sulfonic acid as slightly toxic to the fathead minnow.

Results Synopsis

LC₅₀: 58.8 ppm ai

95% C.I.: 48.7 - 71.0 ppm ai

NOEC: 48.7 ppm ai Probit Slope: N/A Møssler Omadine sulfonic acid Pimephales promelas 6-4-98 ******************** BINOMIAL CONC. NUMBER NUMBER PERCENT DEAD PROB. (PERCENT) **EXPOSED** DEAD 118 20 20 100 9.536742E-05 20 20 100 9.536742E-05 71

0

0

9.536742E-05

9.536742E-05

18.4 20 0 9.536742E-05

THE BINOMIAL TEST SHOWS THAT 48.7 AND 71 CAN BE
USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT
CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL

ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 58.8022

0

0

48.7

31

20

20

WHEN THERE ARE LESS THAN TWO CONCENTRATIONS AT WHICH THE PERCENT DEAD IS BETWEEN 0 AND 100, NEITHER THE MOVING AVERAGE NOR THE PROBIT METHOD CAN GIVE ANY STATISTICALLY SOUND RESULTS.

